

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: io LED

Report Number: P223685

Luminaire Tested: **LSR2B10SP159050D010 2LBD*B**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P223685
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (150)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LSR2B10SP159050D010 2LBD*B
Description: 1000 Lumen, 2inch Portfolio LED Cylinder
SPOT OPTIC
SPUN ROUND TRIM WITH BLACK FINISH
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 500.3 lumens
Efficiency: N/A
Efficacy: 48.6 lumens/watt
Spacing Criteria (0/90/45): 0.24 / 0.24 / 0.23
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')
CIE Type: Direct

Input Watts (W): 10.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																			
1	116	114	112	111	113	112	110	109	108	107	106	104	103	103	101	100	100	98																			
2	113	110	107	105	111	108	106	104	105	103	102	102	101	100	100	99	98	96																			
3	110	106	103	101	108	105	102	100	102	100	98	100	98	97	98	97	96	94																			
4	108	103	100	97	106	102	99	97	100	98	96	98	96	95	97	95	94	93																			
5	105	101	97	95	104	100	97	94	98	96	94	97	95	93	95	94	92	91																			
6	103	98	95	93	102	98	95	92	96	94	92	95	93	91	94	92	91	90																			
7	101	96	93	91	100	96	93	90	95	92	90	94	91	90	93	91	89	88																			
8	100	94	91	89	99	94	91	89	93	90	89	92	90	88	92	90	88	87																			
9	98	93	90	88	97	92	89	87	92	89	87	91	89	87	90	88	87	86																			
10	96	91	88	86	96	91	88	86	90	88	86	90	87	86	89	87	86	85																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	2404063
5°	1737895
10°	505929
15°	177527
20°	76011
25°	34191
30°	13239
35°	6573
40°	4399
45°	2849
50°	1567
55°	1148
60°	697
65°	0
70°	0
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	316.3	63.2
10°-20°	128.7	25.7
20°-30°	39.5	7.9
30°-40°	9.7	1.9
40°-50°	4.1	0.8
50°-60°	1.7	0.3
60°-70°	0.3	0.1
70°-80°	0.0	0.0
80°-90°	0.0	0.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	484.4	96.8
0°-40°	494.2	98.8
0°-60°	500.0	99.9
0°-90°	500.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	500.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	6206	
5°	4470	316
15°	443	129
25°	80	39
35°	14	10
45°	5	4
55°	2	2
65°	0	0
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	6206.5
1°	6111.7
2°	5880.3
3°	5511.5
4°	5029.7
5°	4469.6
6°	3838.2
7°	3152.8
8°	2457.9
9°	1808.2
10°	1286.3
11°	921.9
12°	693.2
13°	564.5
14°	494.0
15°	442.7
17.5°	273.1
20°	184.4
22.5°	123.5
25°	80.0
27.5°	48.7
30°	29.6
32.5°	19.1
35°	13.9
37.5°	11.3
40°	8.7
42.5°	7.0
45°	5.2
47.5°	3.5
50°	2.6
52.5°	2.6
55°	1.7
57.5°	1.7
60°	0.9
62.5°	0.9
65°	0.0
67.5°	0.0
70°	0.0
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0



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CANDELA DISTRIBUTION (continued):

0°
90° | 0.0



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— 0°-180°







85°		0.0
87.5°		0.0



(END OF REPORT)